	Application No.	Applicant(s)	
Nation of Allaurability	09/964,494	XIE ET AL.	
	Examiner	Art Unit	
	Alexander O Williams	2826	
The MAILING DATE of this communication appee All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPOT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to the Amendment filed of the Amendment	the cover sheet with the (OR REMAINS) CLOSED in this or other appropriate communication is subject and MPEP 1308. 6/1/04. and 62-76; renumbered 1-15,16. the Examiner. der 35 U.S.C. § 119(a)-(d) or (f) been received. been received in Application Note that samplication. of this communication to file a received in the entry of this application. and the entry of the samplication. and the entry of the samplication of the samplication. and the entry of the attached EXAMIN is reason(s) why the oath or decit be submitted. and 62-76; renumbered 1-15,16. and 62-76;	e correspondence address application. If not included tion will be mailed in due course. THI ct to withdrawal from issue at the initi 29,30-43,44-47,48-52 and 53-67 his national stage application from the ply complying with the requirements ER'S AMENDMENT or NOTICE OF laration is deficient. TO-948) attached are Office action of awings in the front (not the back) of	iati∨e
7. ☐ DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIA	L must be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Inform 6. ☐ Interview Summ Paper No./Mail		
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 6/1/04 	8), 7. Examiner's Ame		
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's State	ement of Reasons for Allowance	
of Biological Material	9. 🗌 Other	a Donal	
		ALEXANDER O. WILLIAMS PRIMARY EXAMINER	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 09/964,494 Page 2

Art Unit: 2826

Serial Number: 09/96494 Attorney's Docket #: 219.4043X00

Filing Date: 9/28/01;

Applicant: Xie et al.

Examiner: Alexander Williams

Applicant's Amendment, filed 12/10/03, in Paper No. 16 is acknowledged.

Claims 1, 17, 18, 33, 34, 49, 50, 55 and 61 have been canceled.

Claims 2 to 16, 19 to 32, 35 to 48, 51 to 54, 56 to 60, 62 to 76 are allowable over the prior art of record.

REASON FOR ALLOWANCE

1. The following is an Examiner's Statement of Reasons for Allowance:

As to independent claims, the prior art of record fails to show the combination recited in any of the claims. In particular, the prior art of record fails to show or collectively teach one of a thin-core and coreless substrate of an integrated circuit printed circuit board carrier package having the heat spreader/integrated stiffener including a side wall portion to mount transverse to the substrate and a stiffener extension to extend from the side wall portion toward a center of the heat spreader/integrated stiffener. Applicant's arguments provide reason for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Field of Search	Date
U.S. Class and subclass: 257/712,713,717,720,700,701,738,704,706,710,696-698,738,737,734,778,734	5/30/03 9/18/03 3/16/04 9/6/04
Other Documentation: foreign patents and literature in 257/712,713,717,720,700,701,738,704,706,710,696- 698,738,737,734,778,734	5/30/03 9/18/03 3/16/04 9/6/04
Electronic data base(s): U.S. Patents EAST	5/30/03 9/18/03 3/16/04 9/6/04

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O Williams whose telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272 1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AOW 9/6/04

> Alexander Williams Primary Examiner